

Serial No. 09/944,175

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A biochemical analyzing method comprising the steps of
fixing probes selected in advance on a substrate;
binding a target with the probes using a specific binding reaction to capture the target;
fractionating the captured target to produce a fractionated target;
detecting only the fractionated target; and
quantitatively analyzing the detected target, wherein the probes are spotted on the
substrate and fixed thereon, and the respective captured targets are electrophoresed, thereby
being fractionated.
2. (previously presented) The biochemical analyzing method in accordance with
Claim 1, wherein the target is bound with the probes using hybridization.
3. (canceled).
4. (currently amended): The biochemical analyzing method in accordance with
Claim 3~~1~~, wherein the respective captured targets are electrophoresed in a direction at an angle
with the surface of the substrate, thereby being fractionated.

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5. (previously presented) The biochemical analyzing method in accordance with Claim 4, wherein the respective captured targets are electrophoresed in gel adjacent and in contact with to the substrate, thereby being fractionated.
6. (previously presented) The biochemical analyzing method in accordance with Claim 5, wherein the respective captured targets are electrophoresed in a block of gel adjacent to the substrate, thereby being fractionated.
7. (previously presented) The biochemical analyzing method in accordance with Claim 4, wherein the respective captured targets are electrophoresed in a plurality of capillaries adjacent to and in contact with the substrate, thereby being fractionated.
8. (previously presented) The biochemical analyzing method in accordance with Claim 7, wherein the plurality of capillaries are filled with a material capable of forming a membrane filter or a gel.
9. (canceled).
10. (currently amended) The biochemical analyzing method in accordance with Claim 91, wherein the probes are one-dimensionally spotted on the substrate to form a plurality of spots and are fixed thereon.

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11. (currently amended) The biochemical analyzing method in accordance with Claim 91, wherein the probes are two-dimensionally spotted on the substrate to form a plurality of spots and are fixed thereon.

12. (previously presented) The biochemical analyzing method in accordance with Claim 1, wherein the target consists of a gene.

13. (previously presented) The biochemical analyzing method in accordance with Claim 1 which further comprises a step of labeling the target with a fluorescent substance.

14. (previously presented) The biochemical analyzing method in accordance with Claim 13, wherein the target is labeled with the fluorescent substance prior to binding the target with the probes.

15. (previously presented) The biochemical analyzing method in accordance with Claim 13, wherein the target is labeled with the fluorescent substance after the respective targets were fractionated.

16. (previously presented) The biochemical analyzing method in accordance with Claim 1 which further comprises a step of labeling the target with a labeling substance which generates chemiluminescent emission when it contacts a chemiluminescent substrate.

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17. (previously presented) The biochemical analyzing method in accordance with Claim 16, wherein the step of labeling occurs prior to said binding step.

18. (previously presented) The biochemical analyzing method in accordance with Claim 16, wherein the step of labeling occurs after the fractionating step.

19. (previously presented) The biochemical analyzing method in accordance with Claim 10, wherein the fractionated targets are two-dimensionally scanned and light released from the targets is detected, thereby performing quantitative analysis.

20. (previously presented) The biochemical analyzing method in accordance with Claim 10, wherein light released from the fractionated targets is detected using an area sensor and quantitative analysis is performed.

21. (previously presented) The biochemical analyzing method in accordance with Claim 11, wherein the fractionated targets are three-dimensionally scanned and light released from the targets is detected, thereby performing quantitative analysis.

22. (currently amended): The biochemical analyzing method in accordance with Claim 31, wherein targets electrophoresed to positions in accordance with the kinds of the targets are quantified and analyzed.

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23-41. (cancelled).